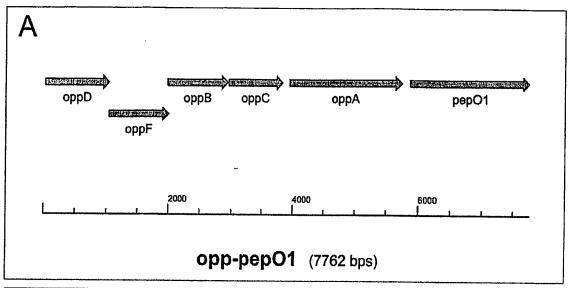
Fig. 1



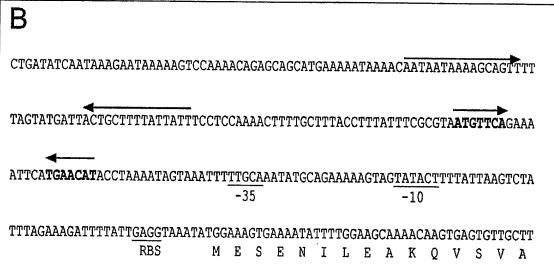


Fig. 2

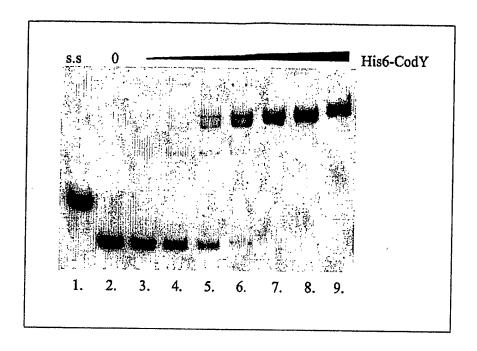
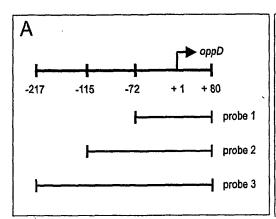
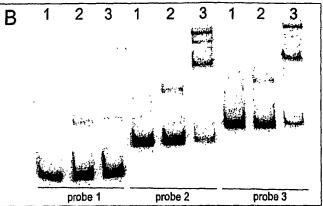


Fig. 3





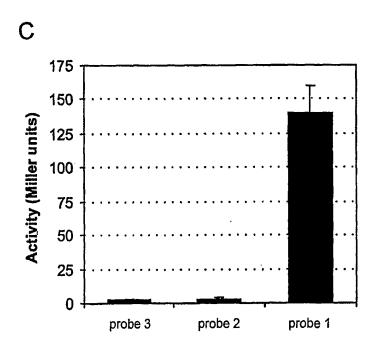


Fig. 4

A

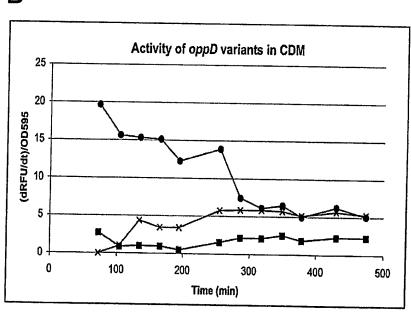
AATGTTCAGAAAATTCATGAACATAC WT

AATATTAAGAAAATTCATGAACATAC Opp15(a)

ACTGTCCCGAAAATTCATGAACATAC Opp15(b)

AACTGCAGGAAAATTCATGAACATAC Opp 2

B



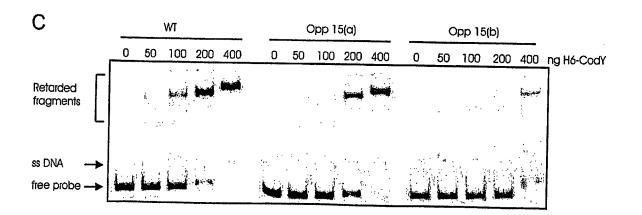


Fig. 4D

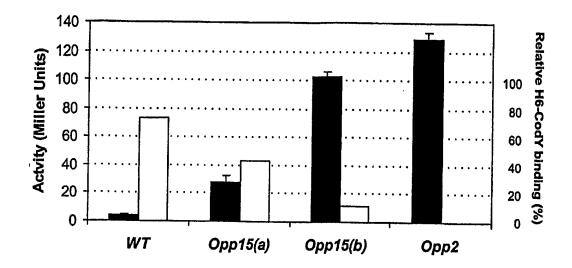


Fig. 5A

WT	CGTA	ATGTTCA	GAAAATTCA	TGAACAT	ACC
MUT2	CGTA	ATGTTC T	GAAAATTCA	TGAACAT	ACC
MUTF	CGTA	ATGTTCA	GAAAATTCA	TG G ACAT	ACC
MUT4	CGTA	ATGTTCA	GAAAATTCA	TGA G CAT	ACC
MUT3	CGTA	G TGTTCA	GAAAATTCA	TGAACAT	ACC
MUT10	CGTA	ATGT C CA	GAAAATTCA	TGAACAT	ACC
MUT16	CGTA	ATGTTC G	GAAAATTCA	TGAACAC	ACC

Fig. 5B

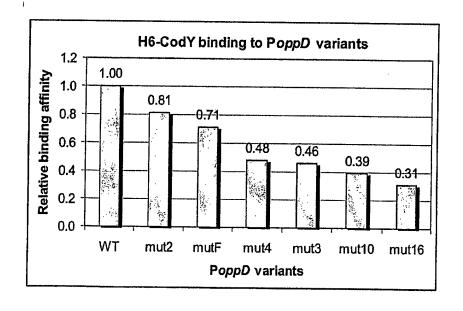


Fig. 6A

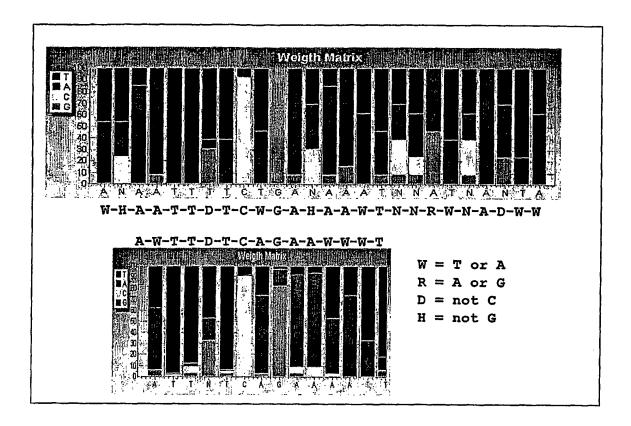
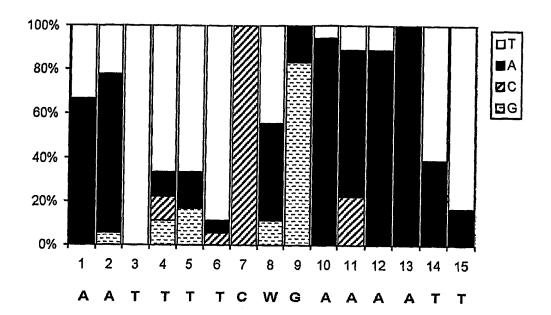


Fig. 6B



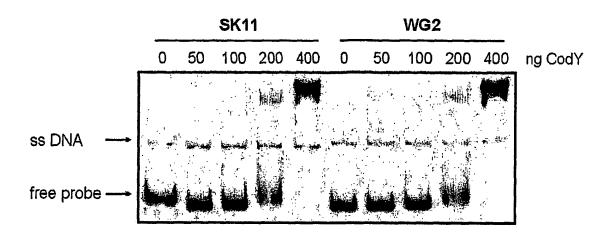
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					# +5 +	45	£												
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Combined	p-value Motits	5.32e-15 - +9	4.78e-15	8.88c-17	7.34e-128	831e-137	2.04e-138	2.76e-04	1.62e-05	8.78e-02	2.13e-03	6.73e-12 - +9	3.32e-05	6.78e-06	1.93e-20	327e.05	4318-03	1.67e-13	
1	Name	pepN(1)	oppD(1)	(Z)Qddo	prtP/M 7.	CZ)	PartPrior 2.	pepDA (1)	pepC(1) 1	pepX(1) 8	ctrA	esnB (Strip	citB/gitA 6	ertD1	Spara	QAE	serC	SCALE

Fig. /

101	 prtM TGCTAAAAATTTCAAAACATCTATAGTCTGTAAACGGCTAAATAATAACGCTAAAAGTTAATTTACAGATAAAAATTAATAGAAGATTAAAATTTTCG TGCTAAAAATTTCAAAACATCTATAGTCTGTAAACGGCTAAATAATAACGCTAAAAGTTAATTTACAGATAAAAAAATTAATAGAAGATTAAAATTTTCG TGCTAAAAATTTCAAAACATCTATAGTCTGTAAACGGCTAAATAATAACGCTAAAAGTTAATTTACAGATAAAAAATTAATAGAAGATTAAAATTTTCG TGCTAAAAATTTCAAAAAATTATAGTCTGTAAACGGCTAAATAATAACGCTAAAAGTTAATTTACAGATAAAAATTAATAGAATTAAAATTTTAG 	Wg2 SK11 E8 BGMN1-5
201	-35° TTGAATTTGTTCTTCAATAGTATAATAGTATATATATATA	Мд2
	-35° TTGAATTTGTTCTTCAATAGTATAATAATAGTATATAATATTATTATATAATATATAATA	SK11
	-35 ^P TTGAATTTATTCTTCAATACTATAATATTATATTATATT	89 80
	-35° TIGAATITGTTCTT <u>LAATAGTATAAT</u> ATAATAGTATATATATATATATATATAT	BGMN1-5
296 301	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	

Fia. 8

Fig. 9



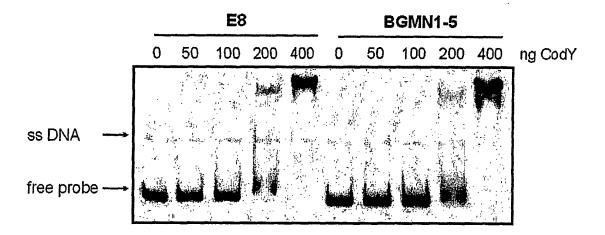


Fig. 10

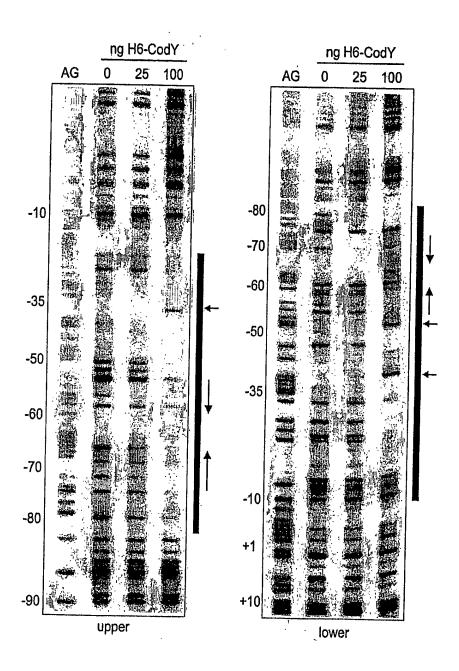


Fig. 11

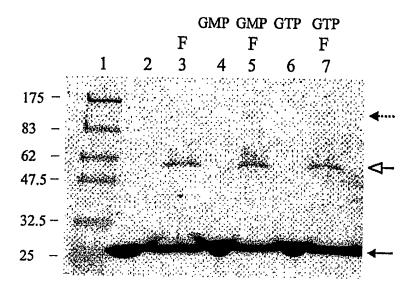


Fig. 12

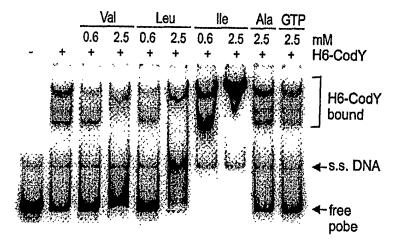
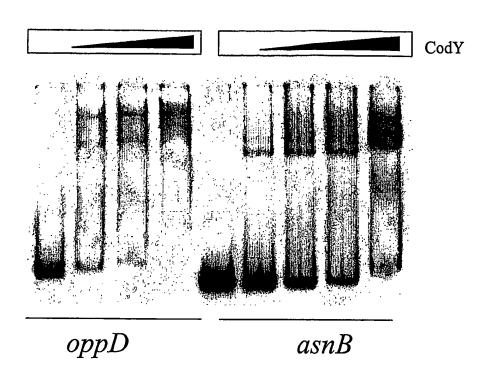
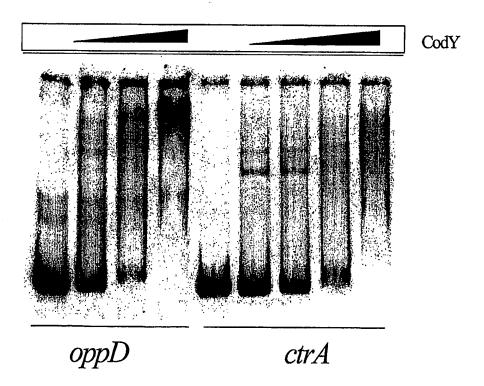


Fig. 13





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